

### ABSTRACT

A skipfire control system for use in a locomotive engine includes a plurality of skipfire mechanisms. Each skipfire mechanism is operatively associated with a respective injector rocker arm of the plurality of cylinders of the engine. Each skipfire mechanism includes an actuator movable between an inoperative position wherein the actuator allows the camshaft of the engine to engage and move the associated injector rocker arm to actuate the associated fuel injector, and an operative position wherein the actuator disengages the associated injector rocker arm from the camshaft to prevent the associated rocker arm from actuating the associated fuel injector. A skipfire controller is operatively connected to the skipfire mechanisms and is responsive to an engine operating parameter to actuate selected ones of the skipfire mechanisms to move the actuators thereof to operative positions to prevent actuation of the fuel injectors associated with the selected ones of the skipfire mechanisms.